

REMARKS

Reconsideration and allowance of the subject application are respectfully requested. By this Amendment, Applicant has canceled claim 7. Thus, claims 1-6 and 8-12 are now pending in the application. Applicant respectfully submits that the pending claims define patentable subject matter.

Claims 1 and 5 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicant Admitted Prior Art in view of Teng et al (USP 5,285,280; hereafter “Teng”). Claims 2, 6 and 8-12 under 35 U.S.C. § 103(a) as being unpatentable over Applicant Admitted Prior Art in view of Teng, Whitaker (ATSC DTV Receiver Systems, Chapter 17.2) and “thefreedictionary.com”. Claims 3 and 4 are objected to as being dependent on a rejected base claim but would be allowable if rewritten in independent form.

In the Amendment filed April 13, 2006, Applicant argued that Applicant Admitted Prior Art (AAPA) and Teng, alone or in combination, do not teach or suggest generating a tap length control signal (or determining a required filter tap length) based on positions of the pre-/post-ghosts farthest from a main tap by using detected multipath information, as required by the claims. In particular, the maximum range of ghosts to be canceled discussed in the Description of the Related Art section of the present application does not disclose “the positions of the pre-/post-ghosts farthest from a main tap” (as recited by claims 1 and 5) because the disclosure of a maximum range of ghosts to be canceled does not suggest actual positions of pre-/post-ghosts farthest from a main tap. Instead, a range is a measured value of distance, which is completely different from positions of ghosts, as claimed. Further, there is no teaching in Teng of a

generation of a tap length control signal based on positions of the pre-/post-ghosts farthest from a main tap by using the detected multipath information.

In response, the Examiner asserts that “[t]he AAPA further discloses an adaptive equalizer used in the receiver for compensation of a channel distortion, such as tilt and ghost wherein the equalizer comprises a filter comprising a number of taps determined by the maximum range of ghosts to be canceled (Specification, Page 2, lines 14-22) wherein one of ordinary skill in the art would recognize that the farthest pre-/post ghosts represent the maximum range of ghosts (multipath signals) and not an arbitrary range.” (pages 2 and 3 of the Office Action).

Although Applicant does not agree with the Examiner’s position, Applicant hereby amends independent claims 1 and 5 to incorporate at least part of the allowable subject matter of claim 3 in order to advance prosecution. Applicant respectfully that it is quite clear that the AAPA and Teng, alone or in combination, do not teach or suggest determining the tap length by comparing the detected multipath information with a threshold value and outputting only correlation values exceeding the threshold value; counting field sync sections delayed by an amount of time taken in obtaining the correlation values; detecting a position of a ghost from the correlation values obtained for the delayed field sync sections which are counted; and adjusting the tap length so as to cover the detected positions of ghosts, as required by the amended claims.

In view of the above, Applicant respectfully submits that independent claims 1 and 5, as well as dependent claims 2, 6 and 8-12 should be allowable because the cited references, alone or in combination, do not teach or suggest all of the features of the claims.

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 09/823,754
Attorney Docket No. Q61477

Art Unit No. 2611

Reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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